



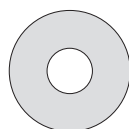
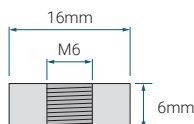
PG-12V45 FR

12V 42.0 AH @ 20-hr.
12V 40.0 AH @ 10-hr.

Rechargeable Sealed Lead Acid Battery
PG Series – Long Life

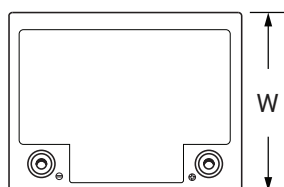
TERMINALS: (mm)

T6: Threaded insert with
6mm stud fastener



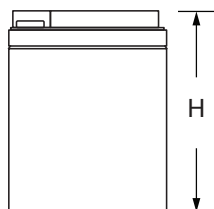
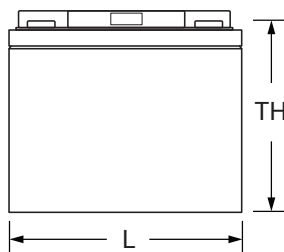
Torque: 3.9~5.4 Nxm

DIMENSIONS: inch (mm)



L: 7.76 (197)
W: 6.50 (165)
H: 6.69 (170)
TH: 6.69 (170)

Tolerances are +/- 0.04 in.
(+/- 1mm) and +/- 0.08 in.
(+/- 2mm) for height
dimensions. All data subject
to change without notice.



L: 7.76 (197) W: 6.50 (165) H: 6.69 (170) TH: 6.69 (170)

FEATURES

- Absorbent Glass Mat (AGM) technology for superior performance & superb discharge characteristics
- Valve regulated, maintenance-free spill proof construction
- Rugged vibration and impact resistant ABS case
- Power/volume ratio yielding excellent energy
- Thick plate design & gas recombination technology
- Design life up to 12 years in standby mode
- UL 94 V-0 Flame-retardant case and cover

APPROVALS

- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified
- UL 1989 Standard for Standby Batteries
- ISO9001:2015–Quality Management Systems
- IEC 60896-21/22 Stationary Lead-Acid Batteries
- EU 2023/1542 Compliant: European Battery Regulation

PERFORMANCE SPECIFICATIONS

Nominal Voltage	12 volts (6 cells)
Nominal Capacity	
20-hr. (2.10A to 10.80 volts)	42.00 AH
10-hr. (4.00A to 10.820 volts)	40.00 AH
5-hr. (7.00A to 9.60 volts)	35.00 AH
1-hr. (25.50A to 9.60 volts)	25.50 AH
Approximate Weight	31.97 lbs. (14.5 kg)
Internal Resistance (approx.)	9.0 milliohms
Max Short-Duration Discharge Current (5 Sec.)	400 amperes
Shelf Life	
PG series batteries may be stored for up to 6 months at 25 C (77F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Operating Temperature Range	
Charge	-4°F (-20°C) to 104°F (40°C)
Discharge	5°F (-15°C) to 122°F (50°C)
Case	ABS Plastic Rated to UL 94 V-0
Power Sonic Chargers	PSC-124000ACX

GLOBAL HEADQUARTERS (USA AND INTERNATIONAL EXCLUDING EMEA)

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POWER-SONIC EMEA (EMEA – EUROPE, MIDDLE EAST AND AFRICA)

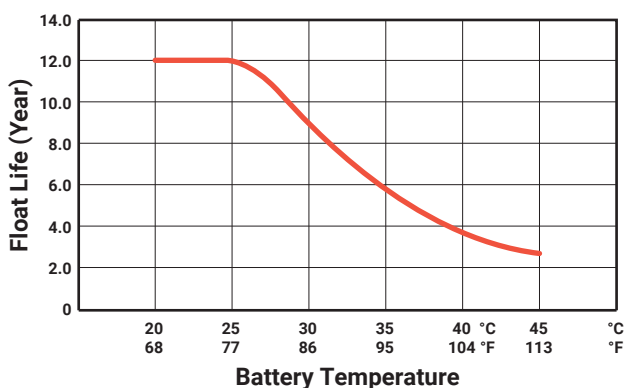
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PG-12V45 FR

12V 42.0 AH @ 20-hr.
12V 40.0 AH @ 10-hr.

Rechargeable Sealed Lead Acid Battery
PG Series – Long Life

FLOAT LIFE IN YEARS VS. TEMPERATURE



CHARGING

Cycle Applications: Apply constant voltage charge at 2.35VPC to 2.45VPC (14.1 to 14.7 volts for 12V Monobloc) at 20°C. The initial charging current should be set at less than C/5 Amps. Switch to float charge when the current falls to a 3% capacity rate to avoid overcharging.

Stand-By or "Float" Service: Apply constant voltage charge of 2.25VPC to 2.30VPC (13.5 to 13.8 volts for 12V Monobloc) at 20°C. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

Temperature Compensation: Charging voltage for both cyclic and stand-by applications should be regulated in relation to ambient temperature. As temperature rises, charging voltage should be reduced to prevent overcharge and increased as the temperature falls to avoid undercharge.

For further charging information, including temperature compensation factors, see the Power-Sonic Technical Manual.

APPLICATIONS

A whole range of applications including but not limited to:

- Fire and Security
- Telecommunications
- Utility
- Solar
- Emergency Lighting
- Wind
- UPS

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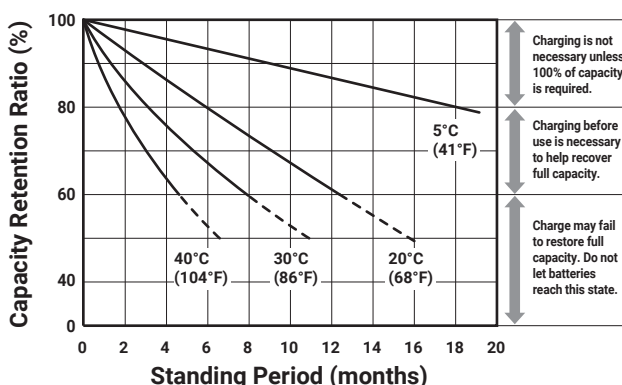
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GENERAL RELATION OF CAPACITY VS. STORAGE TIME



Charging is not necessary unless 100% of capacity is required.

Charging before use is necessary to help recover full capacity.

Charge may fail to restore full capacity. Do not let batteries reach this state.

CHARGERS

Power Sonic offers a wide range of chargers suitable for batteries with a variety of capacities.

Please refer to our website for more information on our switch mode and transformer type chargers.

Please contact our technical department for advice if you have difficulty in locating a suitable charger.

FURTHER INFORMATION

Please refer to our website www.power-sonic.com for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc.

